

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-01188
1b. Type of Well: <input type="checkbox"/> <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name UTE Tribe
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address P.O. Box 173779 Denver, CO 80217-3779		8. Lease Name and Well No. NBU 921-15D1S
3b. Phone No. (include area code) 720.929.6226		9. API Well No. 43047-40235
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface 2600 832 FNL NE NW 624784 X 44331314 40.041080 FWL 624195 X 44331854 -109.537337 At proposed prod. zone 621 FNL 671 FWL NW NW 40.041648 -109.544218		10. Field and Pool, or Exploratory Natural Buttes Field
14. Distance in miles and direction from the nearest town or post office* 12.9 miles southeast of Ouray, Utah		11. Sec., T., R., M., or Blk. and Survey or Area Sec 15 T 9S R 21E
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 832'	16. No. of acres in lease 800	12. Cou State Utah
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 50'	17. Spacing Unit dedicated to this well 20	20. BLM/ BIA Bond No. on file RLB0005239
21. Elevations (Show whether DF, RT, GR, etc.) 4792' GR	22. Approximate date work will start* Upon Approval	Esti mat 10 days
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

- |   |   |
|---|---|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by existing bond on file (see item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Land SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/ or plans as may be required by authorized officer. |

25. Signature 	Name (Printed/ Typed) Kevin McIntyre
Title Regulatory Analyst	
Approved By (Signature)  07-31-08	Name (Printed/ Typed) BRADLEY G. HILL
Title ENVIRONMENTAL MANAGER	Office

RECEIVED  
JUL 15 2008

DIV. OF OIL, GAS & MINING

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

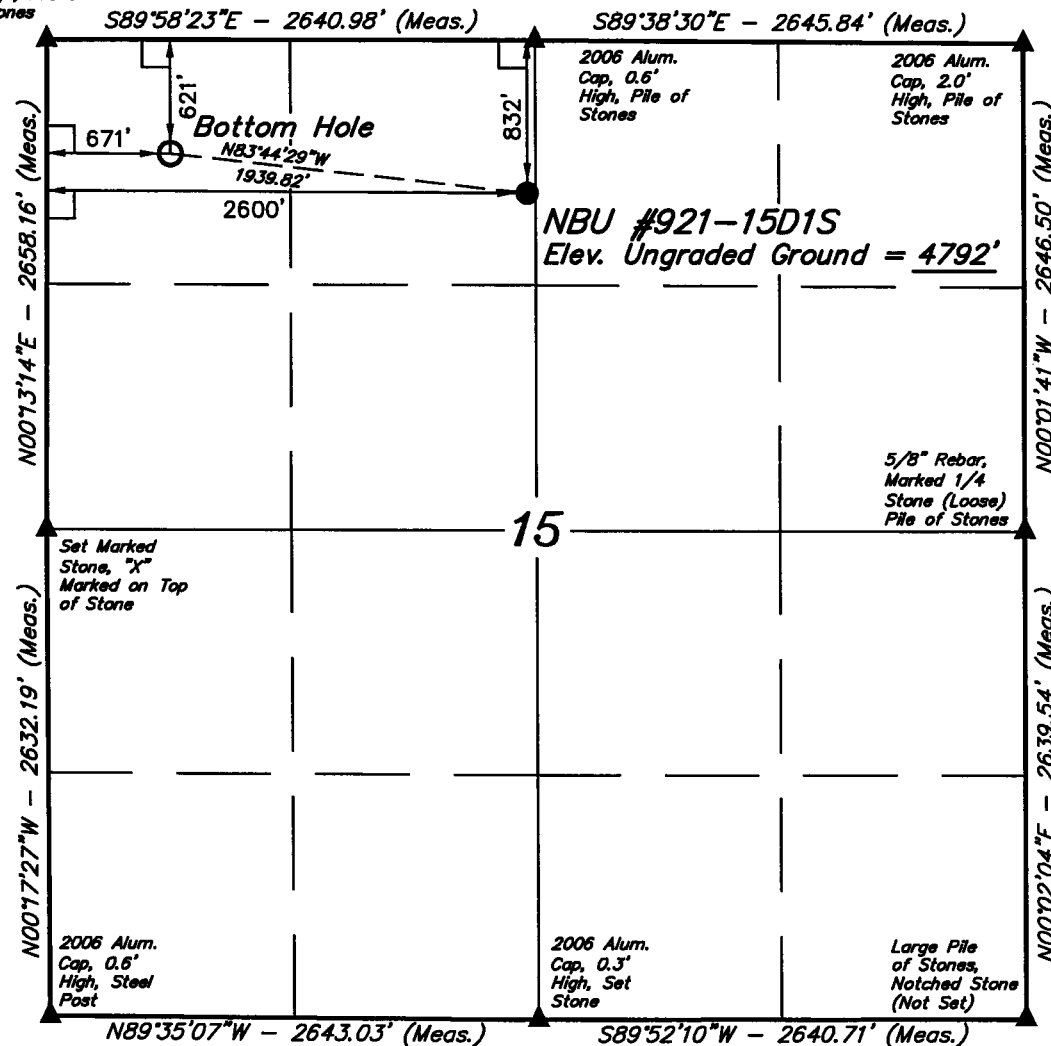
(Continued on page 2)

\*(Instructions on page 2)

Federal Approval of this  
Action is Necessary

**T9S, R21E, S.L.B.&M.**

2006 Alum.  
Cap, 0.4'  
High, Pile of  
Stones



**Kerr-McGee Oil & Gas Onshore LP**

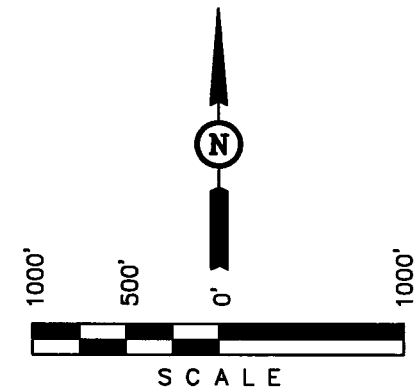
Well location, NBU #921-15D1S, located as shown in the NE 1/4 NW 1/4 of Section 15, T9S, R21E, S.L.B.&M., Uintah County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*[Signature]*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

### LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°02'30.02" (40.041672)	LATITUDE = 40°02'27.95" (40.041097)
LONGITUDE = 109°32'41.80" (109.544844)	LONGITUDE = 109°32'17.01" (109.538058)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°02'30.15" (40.041708)	LATITUDE = 40°02'28.08" (40.041133)
LONGITUDE = 109°32'39.32" (109.544256)	LONGITUDE = 109°32'14.53" (109.537369)

**UINTAH ENGINEERING & LAND SURVEYING**  
**85 SOUTH 200 EAST - VERNAL, UTAH 84078**  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 05-14-08	DATE DRAWN: 05-21-08
PARTY L.K. N.W. C.C.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Kerr-McGee Oil & Gas Onshore LP	

**NBU 921-15D1S  
NENW Sec. 15, T9S,R21E  
UINTAH COUNTY, UTAH  
UTU-01188**

**ONSHORE ORDER NO. 1**

***DRILLING PROGRAM***

**1. Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1727'
Bird's Nest	2059'
Mahogany	2445'
Wasatch	5145'
Mesaverde	8079'
MVU2	9050'
MVL1	9621'
TVD	10,100'
TD	10,475'

**2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	1727'
	Bird's Nest	2059'
	Mahogany	2445'
Gas	Wasatch	5145'
Gas	Mesaverde	8079'
Gas	MVU2	9050'
Gas	MVL1	9621'
Water	N/A	
Other Minerals	N/A	

**3. Pressure Control Equipment (Schematic Attached)**

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

**4. Proposed Casing & Cementing Program:**

*Please see the Natural Buttes Unit SOP.*

**5. Drilling Fluids Program:**

*Please see the Natural Buttes Unit SOP.*

6. **Evaluation Program:**

*Please see the Natural Buttes Unit SOP.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,100' TVD, approximately equals 6262 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4040 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

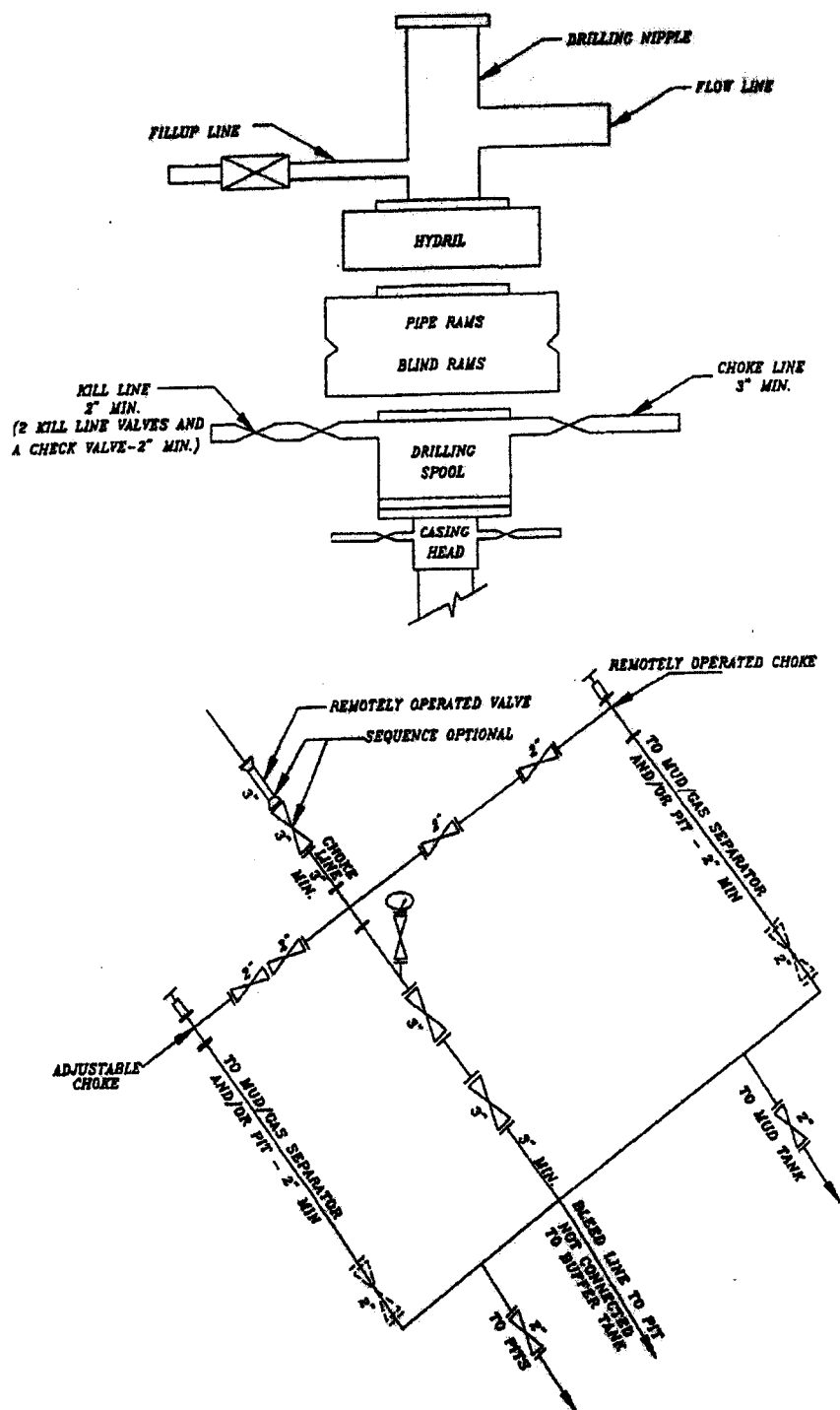
9. **Variances:**

*Please see Natural Buttes Unit SOP. Please see Kerr McGee's sundry regarding variance request to Onshore Order #2 regarding Air drilling for surface casing.*

10. **Other Information:**

*Please see Natural Buttes Unit SOP.*

EXHIBIT A



**SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK**

**NBU 921-15D1S  
NENW Sec. 15 ,T9S,R21E  
UINTAH COUNTY, UTAH  
UTU-01188**

**ONSHORE ORDER NO. 1**

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

**1. Existing Roads:**

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

**2. Planned Access Roads:**

No new access road is planned, as this is a twin location. Refer to Topo Map B.

*Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.*

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

**3. Location of Existing Wells Within a 1-Mile Radius:**

Please refer to Topo Map C.

**4. Location of Existing & Proposed Facilities:**

No new pipeline, as we will be utilizing the existing NBU #298 pipeline. No TOPO D attached.

*Please see the Natural Buttes Unit SOP.*

**Variances to Best Management Practices (BMPs) Requested:**

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

**Interim Surface Reclamation Plan:**

This exception is requested due to the current twin and multi-well program. If determined that this well will not be a candidate for either twinning &/or multi-well the operator shall spread the topsoil pile on the location up to the rig anchor points. The location will be reshaped to the

original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

5. **Location and Type of Water Supply:**

*Please see the Natural Buttes SOP.*

6. **Source of Construction Materials:**

*Please see the Natural Buttes SOP.*

7. **Methods of Handling Waste Materials:**

*Please see the Natural Buttes SOP.*

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E, Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. **Ancillary Facilities:**

*Please see the Natural Buttes SOP.*

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

**10. Plans for Reclamation of the Surface:**

*Please see the Natural Buttes SOP.*

upon reclamation of the pit the following seed mixture will be used. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for ***drilled*** seed are:

Crested Wheatgrass      12 lbs.

Operator shall call the BLM for the seed mixture when final reclamation occurs.

**11. Surface/Mineral Ownership:**

The well pad and access road are located on lands owned by:

Ute Indian Tribe  
P.O. Box 70  
Fort Duchesne, Utah 84026  
(435) 722-5141

The mineral ownership is listed below:

United States of America  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078  
(435)781-4400

**12. Stipulations****Wildlife Stipulations:**

- Antelope Stipulations:  
No construction from May 15 through June 20.

**Critical Soils Stipulations:**

No construction when wet.

**13. Other Information:**

A Class III archaeological survey and a paleontological survey have been performed and will be submitted.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.



**14. Lessee's or Operator's Representative & Certification:**

Kevin McIntyre  
Regulatory Analyst  
Kerr-McGee Oil & Gas Onshore LP  
P.O. Box 173779  
Denver, CO 80217-3779  
(720) 929-6226

Randy Bayne  
Drilling Manager  
Kerr-McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7018

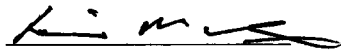
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bond #WYB000291 and State of Utah Bond #RLB0005237.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Kevin McIntyre

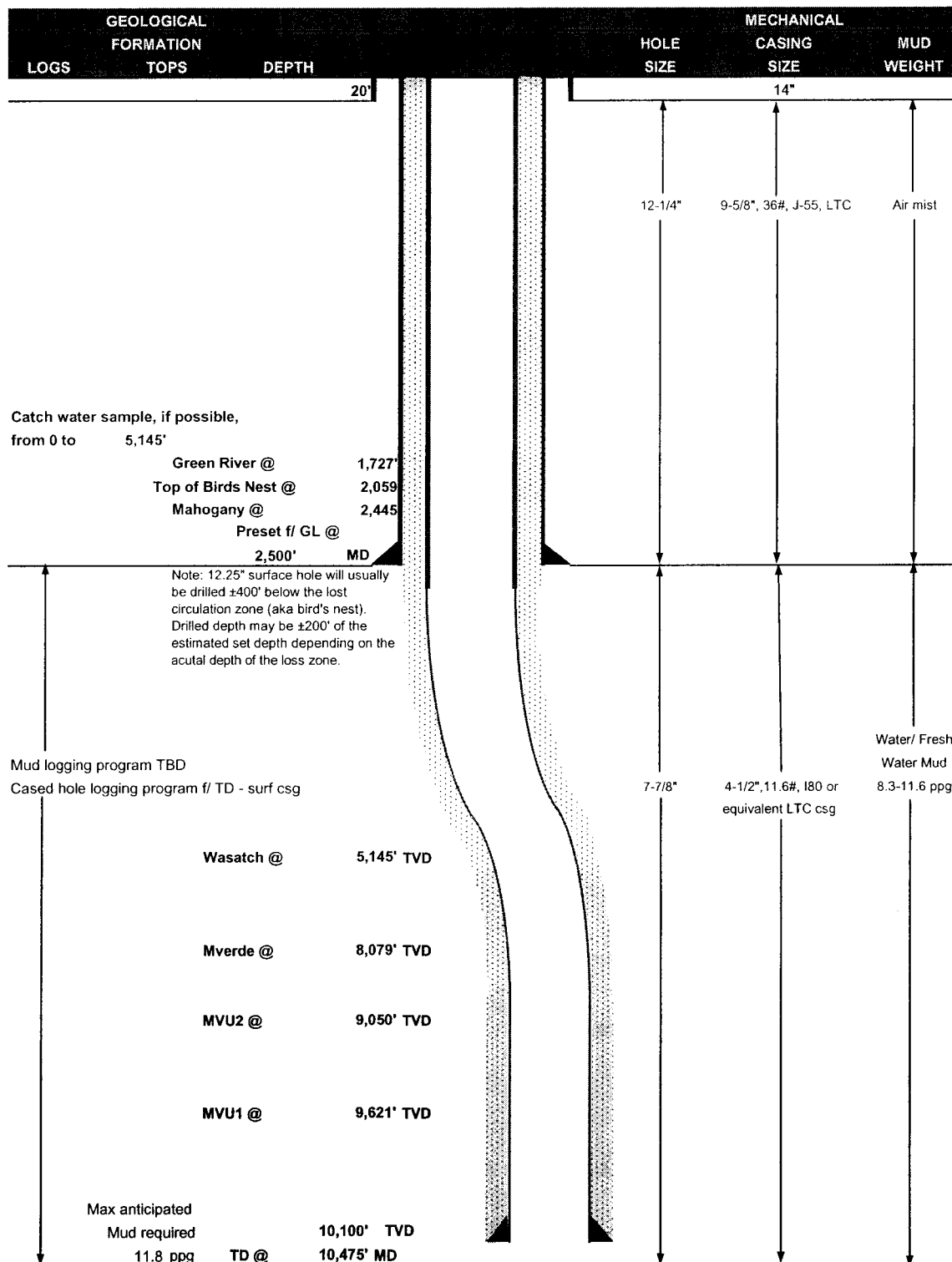
7/10/2008

Date



# KERR-McGEE OIL & GAS ONSHORE LP **DRILLING PROGRAM**

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	July 10, 2008		
WELL NAME	<b>NBU 921-15D1S</b>	TD	10,100'	TVD	10,475' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
		ELEVATION	4,792' GL	KB	4,807'
SURFACE LOCATION	NENW 832' FNL & 2600' FWL, Sec. 15, T 9S R 21E				
	Latitude: 40.041133	Longitude: -109.537369	NAD 27		
BTM HOLE LOCATION	NWNW 621' FNL & 671' FWL, Sec. 15, T 9S R 21E				
	Latitude: 40.041708	Longitude: -109.544256	NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BIA(SURFACE), UDOGM, Tri-County Health Dept.				





# **KERR-McGEE OIL & GAS ONSHORE LP** **DRILLING PROGRAM**

## **CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3520	2020	453000
SURFACE	9-5/8"	0 to 2500	36.00	J-55	LTC	0.89	1.73	6.41
						7780	6350	201000
PRODUCTION	4-1/2"	0 to 10100	11.60	I-80	LTC	1.96	1.02	1.90

- 1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)
- (Burst Assumptions: TD = 11.8 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)
- MASP 4040 psi

## **CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>				
Option 2	LEAD	1500	65/35 Poz + 6% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOW	360	35%	12.60	1.81
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,645'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	440	40%	11.00	3.38
	TAIL	5,830'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1430	40%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

## **FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

## **ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

**DRILLING ENGINEER:**

Brad Laney

**DATE:** \_\_\_\_\_

**DRILLING SUPERINTENDENT:**

Randy Bayne

**DATE:** \_\_\_\_\_



**Weatherford<sup>®</sup>**

## **Drilling Services**

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## **Proposal**

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### **ANADARKO - KERR McGEE**

NBU 921-15D1S

UINTAH COUNTY, UTAH

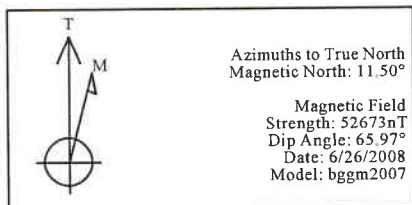
WELL FILE: PLAN2

DATE: JUNE 30, 2008

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**Weatherford International, Ltd.**

15710 John F. Kennedy Blvd  
Houston, Texas 77032 USA  
+1.281.260.1300 Main  
+1.281.260.4730 Fax  
[www.weatherford.com](http://www.weatherford.com)



SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec Target
1	0.00	0.00	276.20	0.00	0.00	0.00	0.00	0.00	0.00
2	300.00	0.00	276.20	300.00	0.00	0.00	0.00	276.20	0.00
3	1050.00	15.00	276.20	1041.46	10.55	-97.04	2.00	-83.80	97.62
4	2622.11	15.00	276.20	2560.00	54.50	-501.55	0.00	0.00	504.51
5	3027.44	27.16	276.20	2937.50	70.22	-646.22	3.00	0.00	650.02
6	5159.80	27.16	276.20	4834.73	175.38	-1613.89	0.00	0.00	1623.39
7	6517.80	0.00	276.20	6142.44	209.51	-1927.93	2.00	180.00	1939.28
8	10475.36	0.00	276.20	10100.00	209.51	-1927.93	0.00	0.00	1939.28 PBHL 15D1S

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
NBU 921-15D1S	0.00	0.00	628056.28	2549444.72	40°02'28.080N	109°32'14.530W	N/A

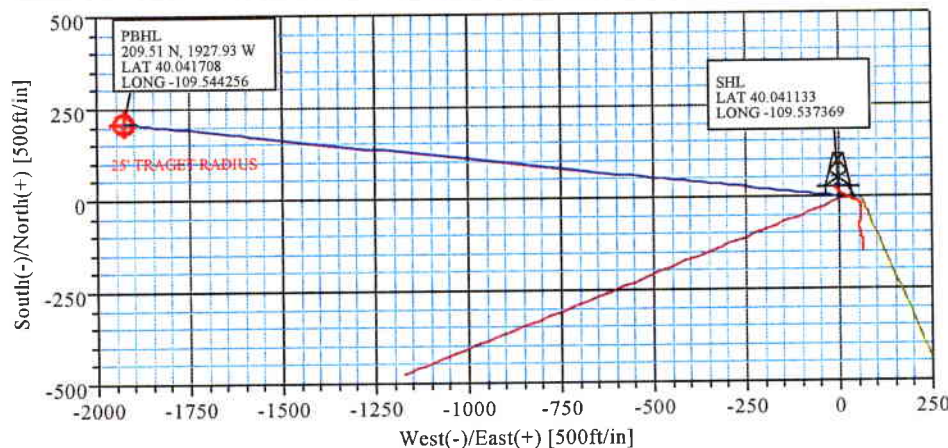
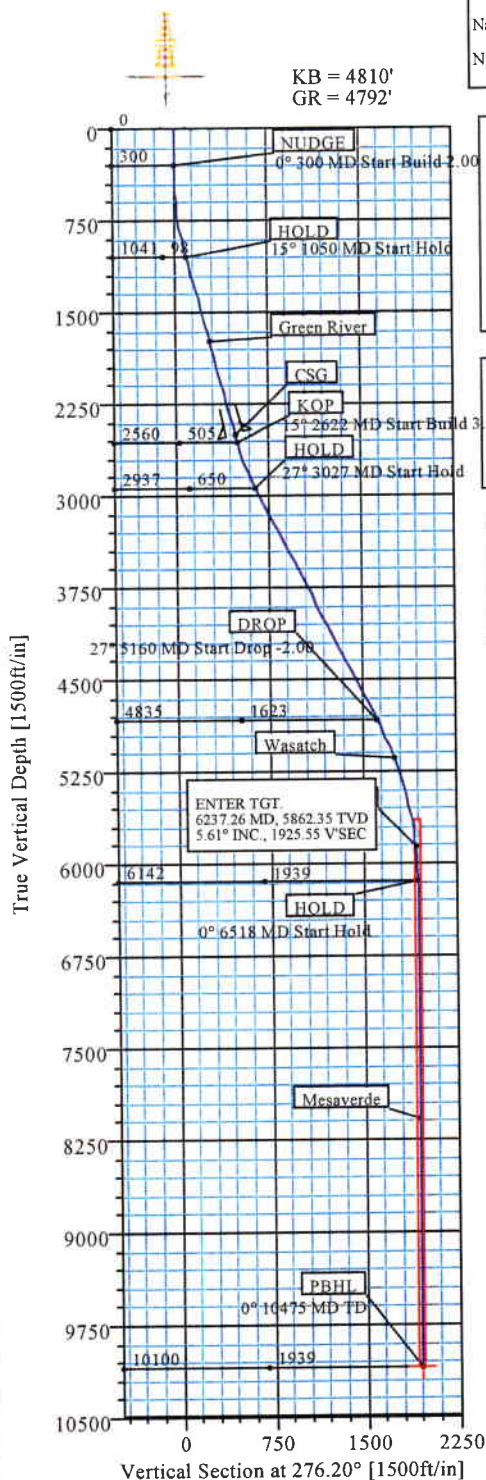
FORMATION TOP DETAILS			
No.	TVDPath	MDPath	Formation
1	1727.00	1759.72	Green River
2	5145.00	5499.02	Wasatch
3	8079.00	8454.36	Mesaverde

FIELD DETAILS	
UINTAH COUNTY, UTAH (NAD 27)	
Geodetic System:	US State Plane Coordinate System 1927
Ellipsoid:	NAD27 (Clarke 1866)
Zone:	Utah, Central Zone
Magnetic Model:	bggm2007
System Datum:	Mean Sea Level
Local North:	True North

CASING DETAILS				
No.	TVD	MD	Name	Size
1	2500.00	2559.99	CSG	0.00

LEGEND	
<span style="color: red;">—</span>	EXISTING WELL 298 (1)
<span style="color: blue;">—</span>	NBU 921-15C4T (1)
<span style="color: purple;">—</span>	NBU 921-15F2S (1)
<span style="color: green;">—</span>	NBU 921-15G2S (1)
<span style="color: red;">—</span>	1
<span style="color: blue;">—</span>	Plan #2

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL 15D1S	10100.00	209.51	-1927.93	40°02'30.150N	109°32'39.320W	Circle (Radius: 25)



# Weatherford

## WELL PLAN REPORT

<b>Company:</b> Anadarko-Kerr-McGee <b>Field:</b> UINTAH COUNTY, UTAH (NAD 27) <b>Site:</b> NBU 921-15F PAD <b>Well:</b> NBU 921-15D1S <b>Wellpath:</b> 1	<b>Date:</b> 6/30/2008 <b>Co-ordinate(NE) Reference:</b> Well: NBU 921-15D1S, True North <b>Vertical (TVD) Reference:</b> SITE 4810.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,276.20Azi) <b>Survey Calculation Method:</b> Minimum Curvature	<b>Time:</b> 08:20:16 <b>Page:</b> 1 <b>Db:</b> Sybase
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<b>Plan:</b> Plan #2  <b>Principal:</b> Yes	<b>Date Composed:</b> 6/26/2008 <b>Version:</b> 1 <b>Tied-to:</b> From Surface
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**Field:** UINTAH COUNTY, UTAH (NAD 27)

<b>Map System:</b> US State Plane Coordinate System 1927 <b>Geo Datum:</b> NAD27 (Clarke 1866) <b>Sys Datum:</b> Mean Sea Level	<b>Map Zone:</b> Utah, Central Zone <b>Coordinate System:</b> Well Centre <b>Geomagnetic Model:</b> bggm2007
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**Site:** NBU 921-15F PAD

<b>Site Position:</b> <b>From:</b> Geographic <b>Position Uncertainty:</b> 0.00 ft <b>Ground Level:</b> 4792.00 ft	<b>Northing:</b> 628056.28 ft <b>Easting:</b> 2549444.72 ft	<b>Latitude:</b> 40 2 28.080 N <b>Longitude:</b> 109 32 14.530 W <b>North Reference:</b> True <b>Grid Convergence:</b> 1.26 deg
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<b>Well:</b> NBU 921-15D1S  <b>Well Position:</b> +N/-S 0.00 ft +E/-W 0.00 ft <b>Position Uncertainty:</b> 0.00 ft	<b>Slot Name:</b>  <b>Well Position:</b> +N/-S 0.00 ft +E/-W 0.00 ft <b>Position Uncertainty:</b> 0.00 ft
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<b>Wellpath:</b> 1  <b>Current Datum:</b> SITE <b>Magnetic Data:</b> 6/26/2008 <b>Field Strength:</b> 52673 nT <b>Vertical Section:</b> Depth From (TVD) ft	<b>Height</b> 4810.00 ft  +N/-S ft +E/-W ft	<b>Drilled From:</b> Surface <b>Tie-on Depth:</b> 0.00 ft <b>Above System Datum:</b> Mean Sea Level <b>Declination:</b> 11.50 deg <b>Mag Dip Angle:</b> 65.97 deg <b>+E/-W</b> Direction deg ft
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**Plan Section Information**

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	276.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	276.20	300.00	0.00	0.00	0.00	0.00	0.00	276.20	
1050.00	15.00	276.20	1041.46	10.55	-97.04	2.00	2.00	0.00	-83.80	
2622.11	15.00	276.20	2560.00	54.50	-501.55	0.00	0.00	0.00	0.00	
3027.44	27.16	276.20	2937.50	70.22	-646.22	3.00	3.00	0.00	0.00	
5159.80	27.16	276.20	4834.73	175.38	-1613.89	0.00	0.00	0.00	0.00	
6517.80	0.00	276.20	6142.44	209.51	-1927.93	2.00	-2.00	0.00	180.00	
10475.36	0.00	276.20	10100.00	209.51	-1927.93	0.00	0.00	0.00	0.00	PBHL 15D1S

**Survey**

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
300.00	0.00	276.20	300.00	0.00	0.00	0.00	0.00	0.00	0.00	NUDGE
400.00	2.00	276.20	399.98	0.19	-1.73	1.75	2.00	2.00	0.00	
500.00	4.00	276.20	499.84	0.75	-6.94	6.98	2.00	2.00	0.00	
600.00	6.00	276.20	599.45	1.70	-15.60	15.69	2.00	2.00	0.00	
700.00	8.00	276.20	698.70	3.01	-27.72	27.88	2.00	2.00	0.00	
800.00	10.00	276.20	797.47	4.70	-43.27	43.52	2.00	2.00	0.00	HOLD
900.00	12.00	276.20	895.62	6.76	-62.24	62.60	2.00	2.00	0.00	
1000.00	14.00	276.20	993.06	9.19	-84.60	85.10	2.00	2.00	0.00	
1050.00	15.00	276.20	1041.46	10.55	-97.04	97.62	2.00	2.00	0.00	
1100.00	15.00	276.20	1089.76	11.94	-109.91	110.56	0.00	0.00	0.00	
1200.00	15.00	276.20	1186.35	14.74	-135.64	136.44	0.00	0.00	0.00	
1300.00	15.00	276.20	1282.94	17.54	-161.37	162.32	0.00	0.00	0.00	
1400.00	15.00	276.20	1379.54	20.33	-187.10	188.20	0.00	0.00	0.00	
1500.00	15.00	276.20	1476.13	23.13	-212.83	214.08	0.00	0.00	0.00	



# Weatherford WELL PLAN REPORT

Company: Anadarko-Kerr-McGee  
Field: UINTAH COUNTY, UTAH (NAD 27)  
Site: NBU 921-15F PAD  
Well: NBU 921-15D1S  
Wellpath: 1

Date: 6/30/2008 Time: 08:20:16 Page: 3  
Co-ordinate(NE) Reference: Well: NBU 921-15D1S, True North  
Vertical (TVD) Reference: SITE 4810.0  
Section (VS) Reference: Well (0.00N,0.00E,276.20Azi)  
Survey Calculation Method: Minimum Curvature Db: Sybase

## Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Comment
6200.00	6.36	276.20	5825.30	207.61	-1910.42	1921.67	2.00	-2.00	0.00	ENTER TGT.
6237.26	5.61	276.20	5862.35	208.03	-1914.28	1925.55	2.00	-2.00	0.00	
6300.00	4.36	276.20	5924.85	208.61	-1919.70	1931.00	2.00	-2.00	0.00	
6400.00	2.36	276.20	6024.68	209.25	-1925.52	1936.86	2.00	-2.00	0.00	
6500.00	0.36	276.20	6124.65	209.50	-1927.87	1939.22	2.00	-2.00	0.00	HOLD
6517.80	0.00	276.20	6142.44	209.51	-1927.93	1939.28	2.00	-2.00	0.00	
6600.00	0.00	276.20	6224.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
6700.00	0.00	276.20	6324.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
6800.00	0.00	276.20	6424.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	Mesaverde
6900.00	0.00	276.20	6524.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
7000.00	0.00	276.20	6624.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
7100.00	0.00	276.20	6724.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
7200.00	0.00	276.20	6824.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
7300.00	0.00	276.20	6924.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
7400.00	0.00	276.20	7024.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
7500.00	0.00	276.20	7124.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
7600.00	0.00	276.20	7224.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
7700.00	0.00	276.20	7324.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
7800.00	0.00	276.20	7424.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
7900.00	0.00	276.20	7524.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	PBHL 15D1S
8000.00	0.00	276.20	7624.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
8100.00	0.00	276.20	7724.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
8200.00	0.00	276.20	7824.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
8300.00	0.00	276.20	7924.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
8400.00	0.00	276.20	8024.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
8454.36	0.00	276.20	8079.00	209.51	-1927.93	1939.28	0.00	0.00	0.00	
8500.00	0.00	276.20	8124.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
8600.00	0.00	276.20	8224.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
8700.00	0.00	276.20	8324.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
8800.00	0.00	276.20	8424.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
8900.00	0.00	276.20	8524.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
9000.00	0.00	276.20	8624.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
9100.00	0.00	276.20	8724.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
9200.00	0.00	276.20	8824.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
9300.00	0.00	276.20	8924.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
9400.00	0.00	276.20	9024.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
9500.00	0.00	276.20	9124.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
9600.00	0.00	276.20	9224.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
9700.00	0.00	276.20	9324.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
9800.00	0.00	276.20	9424.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
9900.00	0.00	276.20	9524.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
10000.00	0.00	276.20	9624.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
10100.00	0.00	276.20	9724.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
10200.00	0.00	276.20	9824.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
10300.00	0.00	276.20	9924.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
10400.00	0.00	276.20	10024.64	209.51	-1927.93	1939.28	0.00	0.00	0.00	
10475.36	0.00	276.20	10100.00	209.51	-1927.93	1939.28	0.00	0.00	0.00	



# Weatherford WELL PLAN REPORT

<b>Company:</b> Anadarko-Kerr-McGee <b>Field:</b> UTAH COUNTY, UTAH (NAD 27) <b>Site:</b> NBU 921-15F PAD <b>Well:</b> NBU 921-15D1S <b>Wellpath:</b> 1	<b>Date:</b> 6/30/2008 <b>Co-ordinate(NE) Reference:</b> Well: NBU 921-15D1S, True North <b>Vertical (TVD) Reference:</b> SITE 4810.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,276.20Azi) <b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Sybase
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## Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec		<--- Longitude ---> Deg Min Sec	
PBHL 15D1S			10100.00	209.51	-1927.93	628223.44	2547512.66	40	2 30.150 N	109	32 39.320 W
-Circle (Radius: 25)											
-Plan hit target											

## Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
2559.99	2500.00	0.00	0.00	CSG

## Annotation

MD ft	TVD ft	
300.00	300.00	NUDGE
1050.00	1041.46	HOLD
2622.11	2560.00	KOP
3027.44	2937.50	HOLD
5159.80	4834.73	DROP
6237.26	5862.35	ENTER TGT.
6517.80	6142.44	HOLD
10475.35	10099.99	PBHL

## Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
1759.72	1727.00	Green River		0.00	0.00
5499.02	5145.00	Wasatch		0.00	0.00
8454.36	8079.00	Mesaverde		0.00	0.00

**Weatherford®****Weatherford Drilling Services**

GeoDec v4.3.065

Report Date: June 30, 2008

Job Number: \_\_\_\_\_

Customer: ANADARKO

Well Name: NBU 921-15D1S

API Number: \_\_\_\_\_

Rig Name: \_\_\_\_\_

Location: UINTA COUNTY, UTAH

Block: \_\_\_\_\_

Engineer: R JOYNER

Geodetic Latitude / Longitude

System: Latitude / Longitude

Projection: Geodetic Latitude and Longitude

Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Latitude 40.0411330 DEG

Longitude -109.5373690 DEG

Geodetic Latitude / Longitude

System: Latitude / Longitude

Projection: Geodetic Latitude and Longitude

Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Latitude 40 2 28.0788000 DMS

Longitude -109 32 14.5284000 DMS

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 40.04113° N 40° 2 min 28.079 sec

Longitude = 109.53737° W 109° 32 min 14.528 sec

Magnetic Declination = 11.5030° [True North Offset]

Local Gravity = .9995 g

Local Field Strength = 52672 nT Magnetic Vector X = 21019 nT

Magnetic Dip = 65.9690° Magnetic Vector Y = 4278 nT

Magnetic Model = bggm2007 Magnetic Vector Z = 48107 nT

Spud Date = Jun 30, 2008 Magnetic Vector H = 21450 nT

Signed: \_\_\_\_\_

Date: \_\_\_\_\_

# Weatherford

## Anticollision Report

Company: Anadarko-Kerr-McGee Date: 6/30/2008 Time: 08:19:18 Page: 1  
 Field: UINTAH COUNTY, UTAH (NAD 27)  
 Reference Site: NBU 921-15F PAD Co-ordinate(NE) Reference: Well: NBU 921-15D1S, True North  
 Reference Well: NBU 921-15D1S Vertical (TVD) Reference: SITE 4810.0  
 Reference Wellpath: 1 Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria  
 Interpolation Method: MD + Stations Interval: 100.00 ft  
 Depth Range: 0.00 to 10475.36 ft  
 Maximum Radius: 10000.00 ft

Reference: Plan: Plan #2  
 Error Model: ISCWSA Ellipse  
 Scan Method: Closest Approach 3D  
 Error Surface: Ellipse

Plan: Plan #2 Date Composed: 6/26/2008  
 Principal: Yes Version: 1  
 Tied-to: From Surface

### Summary

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
NBU 921-15F PAD	EXISTING WELL 2981 V0		600.00	599.53	22.97	21.49	15.59	

Site: NBU 921-15F PAD  
 Well: EXISTING WELL 298  
 Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	336.26	23.17	-10.19	25.31			No Data
100.00	100.00	99.98	99.98	0.09	0.04	337.24	23.38	-9.81	25.35	25.22	196.74	
200.00	200.00	200.00	199.99	0.30	0.10	338.71	23.67	-9.22	25.41	25.02	65.01	
300.00	300.00	300.01	300.00	0.50	0.15	339.70	23.84	-8.82	25.42	24.76	38.94	
400.00	399.98	400.08	400.07	0.72	0.20	67.90	23.76	-8.46	24.51	23.59	26.75	
500.00	499.84	499.91	499.91	0.93	0.25	81.43	23.47	-7.89	22.73	21.55	19.18	
600.00	599.45	599.53	599.52	1.17	0.31	105.89	22.97	-6.94	22.97	21.49	15.59	
700.00	698.70	698.92	698.90	1.44	0.36	133.00	21.60	-5.99	28.59	26.83	16.25	
800.00	797.47	797.57	797.52	1.75	0.41	152.06	19.58	-5.26	40.82	38.79	20.13	
900.00	895.62	895.26	895.18	2.11	0.46	162.76	17.65	-4.40	58.86	56.56	25.63	
1000.00	993.06	992.16	992.06	2.53	0.52	168.87	15.70	-3.18	81.69	79.11	31.72	
1050.00	1041.46	1040.05	1039.93	2.77	0.54	170.97	14.65	-2.44	94.71	91.99	34.85	
1100.00	1089.76	1087.71	1087.57	3.01	0.57	172.63	13.61	-1.54	108.40	105.54	37.79	
1200.00	1186.35	1183.47	1183.30	3.51	0.63	174.83	11.80	0.53	136.24	133.07	42.91	
1300.00	1282.94	1278.89	1278.68	4.02	0.68	176.13	10.41	2.78	164.36	160.87	47.15	
1400.00	1379.54	1373.83	1373.57	4.53	0.73	177.06	8.93	5.39	192.92	189.12	50.78	
1500.00	1476.13	1468.96	1468.63	5.05	0.79	177.78	7.34	8.40	221.92	217.81	53.92	
1600.00	1572.72	1563.44	1563.04	5.57	0.85	178.42	5.41	11.64	251.22	246.79	56.66	
1700.00	1669.31	1655.65	1655.16	6.09	0.90	178.88	3.57	15.48	281.26	276.50	59.17	
1800.00	1765.91	1745.53	1744.86	6.62	0.97	179.32	1.31	20.54	312.74	307.66	61.64	
1900.00	1862.50	1837.20	1836.24	7.15	1.03	179.78	-1.71	27.11	345.75	340.35	64.07	
2000.00	1959.09	1934.34	1933.09	7.68	1.11	180.28	-5.46	33.78	378.56	372.84	66.13	
2100.00	2055.68	2031.53	2030.03	8.21	1.18	180.68	-8.98	39.72	410.66	404.61	67.81	
2200.00	2152.28	2129.62	2127.93	8.74	1.25	180.81	-10.94	45.46	442.34	435.96	69.32	
2300.00	2248.87	2232.86	2231.05	9.27	1.31	180.92	-12.70	49.99	472.60	465.89	70.42	
2400.00	2345.46	2333.76	2331.88	9.80	1.38	181.08	-14.85	52.95	501.53	494.49	71.21	
2500.00	2442.05	2432.76	2430.84	10.33	1.43	181.25	-17.12	55.04	529.70	522.33	71.83	
2600.00	2538.65	2532.20	2530.24	10.86	1.49	181.39	-19.26	56.64	557.39	549.69	72.35	
2622.11	2560.00	2554.79	2552.82	10.98	1.50	181.42	-19.73	56.89	563.41	555.63	72.43	
2700.00	2634.81	2632.32	2630.34	11.42	1.55	181.55	-21.39	57.40	585.78	577.76	72.96	
2800.00	2729.44	2726.94	2724.92	12.07	1.60	181.72	-23.74	57.76	618.73	610.38	74.13	
2900.00	2822.26	2819.86	2817.81	12.81	1.65	181.88	-26.12	58.19	656.65	647.99	75.78	
3000.00	2913.00	2916.05	2913.98	13.64	1.70	182.00	-28.30	58.06	698.79	689.79	77.70	
3027.44	2937.50	2940.05	2937.97	13.88	1.71	182.02	-28.78	57.96	711.10	702.02	78.31	
3100.00	3002.06	3003.28	3001.19	14.54	1.74	182.04	-29.95	57.82	744.23	734.85	79.35	
3200.00	3091.03	3093.01	3090.90	15.45	1.79	182.06	-31.69	57.63	789.91	780.12	80.64	



# Weatherford

## Anticollision Report



**Weatherford**

Company: Anadarko-Kerr-McGee  
 Field: UINTAH COUNTY, UTAH (NAD 27)  
 Reference Site: NBU 921-15F PAD  
 Reference Well: NBU 921-15D1S  
 Reference Wellpath: 1

Date: 6/30/2008

Time: 08:19:18

Page: 3

Co-ordinate(NE) Reference: Well: NBU 921-15D1S, True North  
 Vertical (TVD) Reference: SITE 4810.0

Db: Sybase

Site: NBU 921-15F PAD  
 Well: EXISTING WELL 298  
 Wellpath: 1 VO

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8200.00	7824.64	6050.00	6045.48	38.68	3.55	100.09	-145.08	64.17	2694.37	2652.54	64.41	
8300.00	7924.64	6050.00	6045.48	38.74	3.55	100.09	-145.08	64.17	2761.42	2719.54	65.93	
8400.00	8024.64	6050.00	6045.48	38.80	3.55	100.09	-145.08	64.17	2830.42	2788.48	67.48	
8500.00	8124.64	6050.00	6045.48	38.87	3.55	100.09	-145.08	64.17	2901.23	2859.22	69.07	
8600.00	8224.64	6050.00	6045.48	38.93	3.55	100.09	-145.08	64.17	2973.71	2931.65	70.70	
8700.00	8324.64	6050.00	6045.48	39.00	3.55	100.09	-145.08	64.17	3047.75	3005.63	72.35	
8800.00	8424.64	6050.00	6045.48	39.06	3.55	100.09	-145.08	64.17	3123.24	3081.05	74.04	
8900.00	8524.64	6050.00	6045.48	39.13	3.55	100.09	-145.08	64.17	3200.07	3157.82	75.74	
9000.00	8624.64	6050.00	6045.48	39.20	3.55	100.09	-145.08	64.17	3278.15	3235.84	77.47	
9100.00	8724.64	6050.00	6045.48	39.27	3.55	100.09	-145.08	64.17	3357.40	3315.02	79.22	
9200.00	8824.64	6050.00	6045.48	39.34	3.55	100.09	-145.08	64.17	3437.72	3395.28	80.99	
9300.00	8924.64	6050.00	6045.48	39.41	3.55	100.09	-145.08	64.17	3519.06	3476.54	82.77	
9400.00	9024.64	6050.00	6045.48	39.48	3.55	100.09	-145.08	64.17	3601.33	3558.75	84.57	
9500.00	9124.64	6050.00	6045.48	39.56	3.55	100.09	-145.08	64.17	3684.49	3641.83	86.38	
9600.00	9224.64	6050.00	6045.48	39.63	3.55	100.09	-145.08	64.17	3768.46	3725.73	88.20	
9700.00	9324.64	6050.00	6045.48	39.71	3.55	100.09	-145.08	64.17	3853.19	3810.40	90.03	
9800.00	9424.64	6050.00	6045.48	39.78	3.55	100.09	-145.08	64.17	3938.65	3895.78	91.87	
9900.00	9524.64	6050.00	6045.48	39.86	3.55	100.09	-145.08	64.17	4024.77	3981.82	93.72	
10000.00	9624.64	6050.00	6045.48	39.94	3.55	100.09	-145.08	64.17	4111.52	4068.50	95.57	
10100.00	9724.64	6050.00	6045.48	40.02	3.55	100.09	-145.08	64.17	4198.86	4155.76	97.42	
10200.00	9824.64	6050.00	6045.48	40.10	3.55	100.09	-145.08	64.17	4286.76	4243.58	99.28	
10300.00	9924.64	6050.00	6045.48	40.18	3.55	100.09	-145.08	64.17	4375.17	4331.91	101.15	
10400.00	10024.64	6050.00	6045.48	40.26	3.55	100.09	-145.08	64.17	4464.07	4420.74	103.01	
10475.36	10100.00	6050.00	6045.48	40.32	3.55	100.09	-145.08	64.17	4531.37	4487.97	104.42	

# Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15F2S,  
#921-15C4T & #921-15G2S  
SECTION 15, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 3.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE EXISTING NBU #298 AND THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 43.9 MILES.



# Kerr-McGee Oil & Gas Onshore LP

## NBU #921-15D1S, #921-15F2S, #921-15C4T & #921-15G2S

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 15, T9S, R21E, S.L.B.&M.

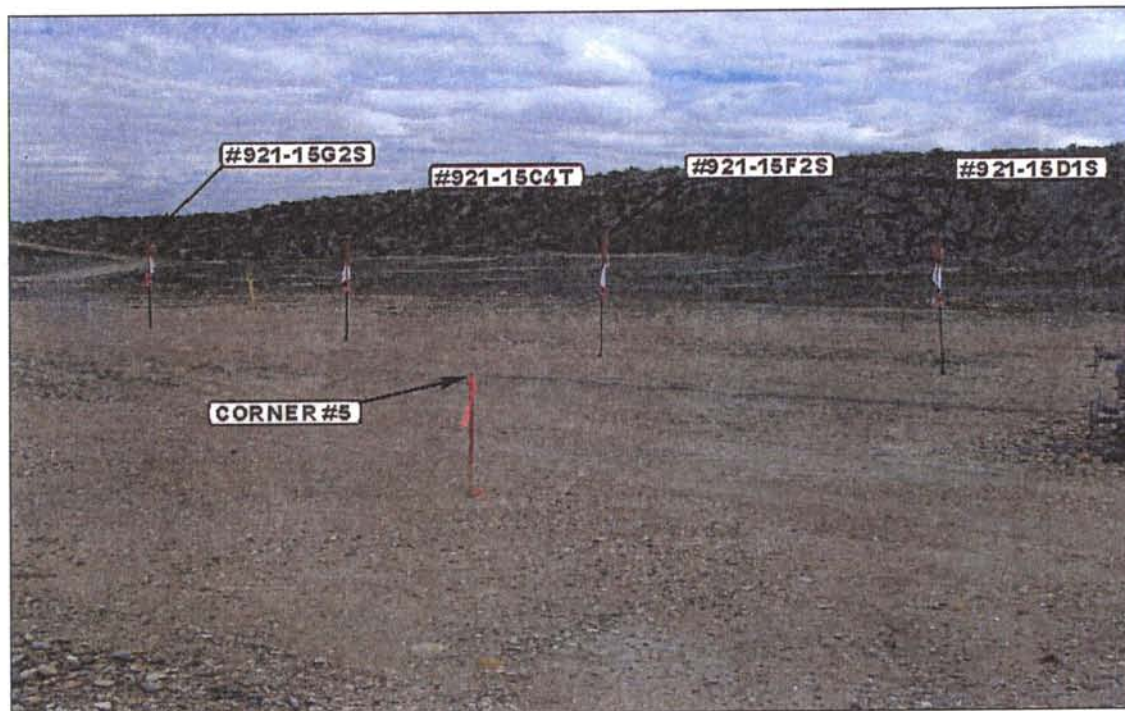


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: SOUTHEASTERLY

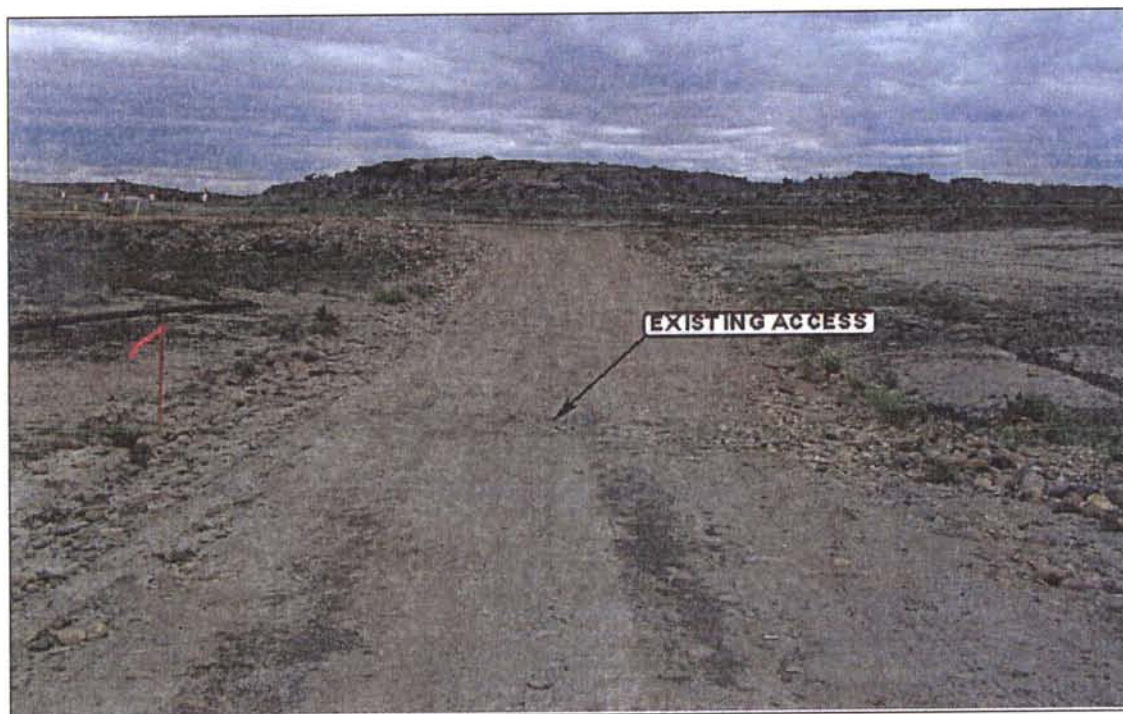


PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NORTHWESTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

**05 21 08**  
MONTH DAY YEAR

PHOTO

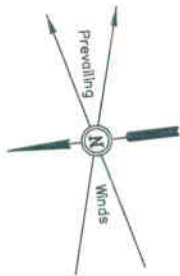
TAKEN BY: L.K.

DRAWN BY: C.C.

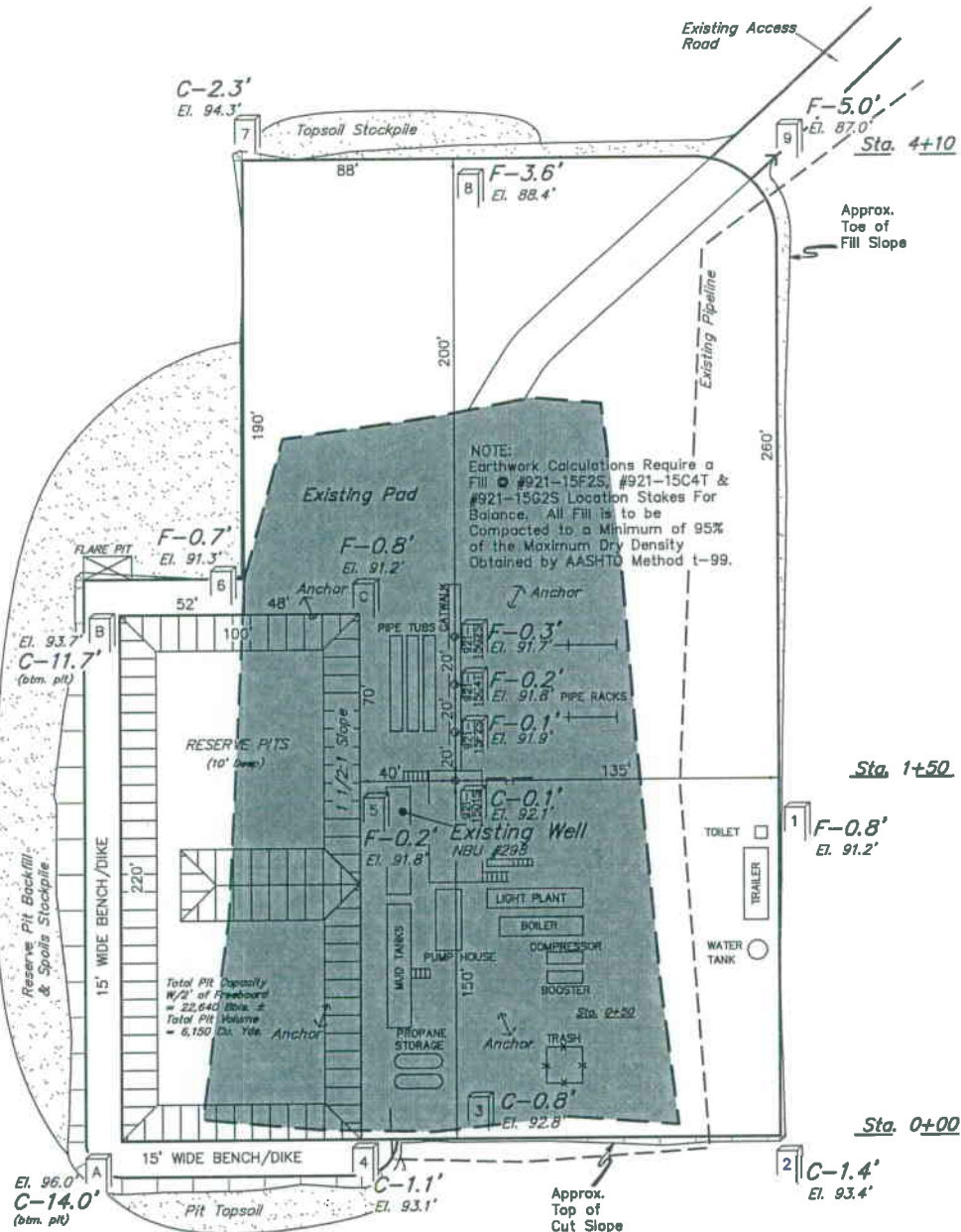
REVISED: 00-00-00

**Kerr-McGee Oil & Gas Onshore LP**  
**SITE PLAN LAYOUT FOR**  
**NBU #921-15D1S, #921-15F2S, #921-15C4T & #921-15G2S**  
**SECTION 15, T9S, R21E, S.L.B.&M.**  
**N 1/2**

**FIGURE #1**



SCALE: 1" = 50'  
 DATE: 05-21-08  
 Drawn By: C.C.



**NOTES:**

Elev. Ungraded Ground At #921-15D1S Loc. Stake = 4792.1'  
 FINISHED GRADE ELEV. AT #921-15D1S LOC. STAKE = 4792.0'



# Kerr-McGee Oil & Gas Onshore LP

## TYPICAL CROSS SECTIONS FOR

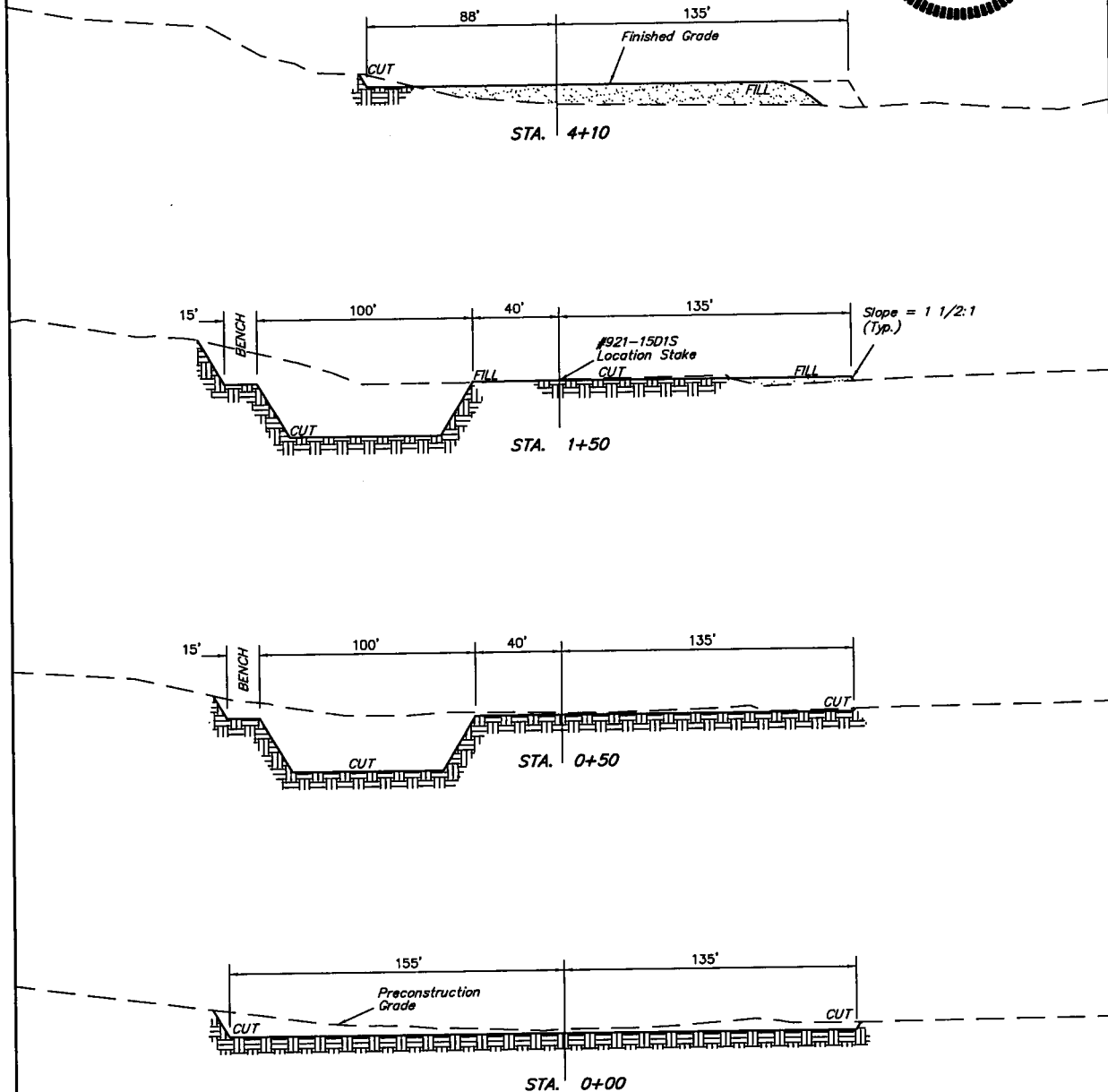
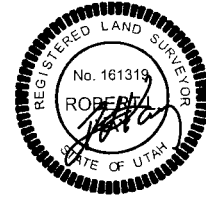
NBU #921-15D1S, #921-15F2S, #921-15C4T & #921-15G2S

SECTION 15, T9S, R21E, S.L.B.&M.

N 1/2

FIGURE #2

1" = 20'  
X-Section  
Scale  
1" = 50'  
DATE: 05-21-08  
Drawn By: C.C.



### NOTE:

Topsoll should not be Stripped Below Finished Grade on Substructure Area.

### \* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

### APPROXIMATE YARDAGES

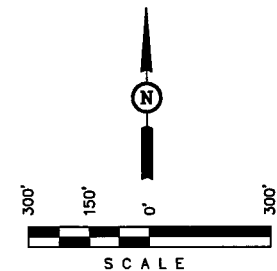
CUT  
(12") Topsoil Stripping = 2,190 Cu. Yds.  
(New Construction Only)  
Remaining Location = 7,310 Cu. Yds.  
TOTAL CUT = 9,500 CU.YDS.  
FILL = 5,120 CU.YDS.

EXCESS MATERIAL = 4,380 Cu. Yds.  
Topsoil & Pit Backfill = 5,270 Cu. Yds.  
(1/2 Pit Vol.)  
DEFICET UNBALANCE = <890> Cu. Yds.  
(After Interim Rehabilitation)

Kerr-McGee Oil & Gas Onshore LP

**LOCATION SURFACE USE AREA  
& ROAD RIGHT-OF-WAY  
ON UTE TRIBAL LANDS**  
(For NBU #921-15D1S, #921-15F2S,  
#921-15C4T & #921-15G2S)

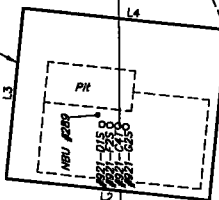
LOCATED IN  
SECTION 15, T9S, R21E, S.L.B.&M.  
UINTAH COUNTY, UTAH



**SURFACE USE AREA**  
NBU #921-15D1S, #921-15F2S,  
#921-15C4T & #921-15G2S  
Contains 4.132 Acres

Ute  
Tribal

Ute  
Tribal



Point of Beginning

S89°38'30"E - 2645.84' (Meas.)

S89°58'23"E - 2640.98' (Meas.)

2006 Alum.  
Cap. 0.6'  
High, Pile of  
Stones

NE Cor. Sec 15  
2006 Alum. Cap.  
2.0' High, Pile  
of Stones

2006 Alum.  
Cap. 0.4'  
High, Pile of  
Stones

Section Line

1/16 Section Line

NW 1/4

NE 1/4

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

**ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS**

ROAD RIGHT-OF-WAY CONTAINED WITHIN SURFACE USE AREA.

**SURFACE USE AREA DESCRIPTION**

BEGINNING AT A POINT IN THE NW 1/4 NE 1/4 OF SECTION 15, T9S, R21E, S.L.B.&M. WHICH BEARS S24°05'39"E 655.59' FROM THE NORTH 1/4 CORNER OF SAID SECTION 15, THENCE S06°07'04"W 425.00'; THENCE N83°52'56"W 510.00'; THENCE N06°07'04"E 425.00'; THENCE S83°52'56"E 510.00' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 4.976 ACRES MORE OR LESS.

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 181319  
STATE OF UTAH

LINE TABLE		
LINE	BEARING	LENGTH
L1	S06°07'04"W	425.00'
L2	N83°52'56"W	510.00'
L3	N06°07'04"E	425.00'
L4	S83°52'56"E	510.00'

Sec. 15

SE 1/4

▲ = SECTION CORNERS LOCATED.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH - 200 EAST • (435) 788-1017  
VERNAL, UTAH - 84078

SCALE 1" = 300'	DATE 05-21-08
PARTY L.K. N.W. C.C.	REFERENCES G.I.O. PLAT
WEATHER WARM	FILE 4 8 6 4 6

N00°13'14"E - 2658.16' (Meas.)

Section Line

1/16 Section Line

1/4 Section Line

1/4 Section Line

SW 1/4

Set Marked  
Stones, "x"  
Marked on Top  
of Stone

Kerr-McGee Oil & Gas Onshore LP  
NBU #921-15D1S, #921-15C2S, #921-15C4T & #921-15G2S  
ROAD RIGHT-OF-WAY & SURFACE USE AREA  
SECTION 15, T9S, R21E, S.L.B.&M.

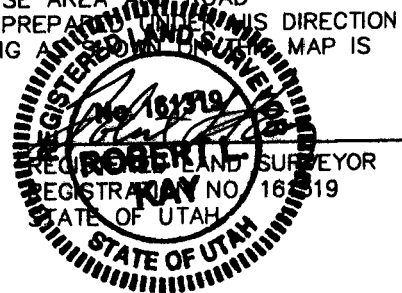
TOTAL ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

ROAD RIGHT-OF-WAY CONTAINED WITHIN SURFACE USE AREA.

ENGINEER'S AFFIDAVIT

STATE OF UTAH }  
COUNTY OF UTAH } SS

ROBERT L. KAY, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR Kerr-McGee Oil & Gas Onshore LP, THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION); THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE SURFACE USE AREA AND ROAD RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED IN HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

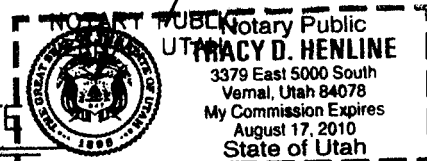


ACKNOWLEDGEMENT

SUBSCRIBED AND SWORN BEFORE ME THIS 17 DAY OF July 2008.

MY COMMISSION EXPIRES Aug 17, 2010

APPLICANT'S CERTIFICATE



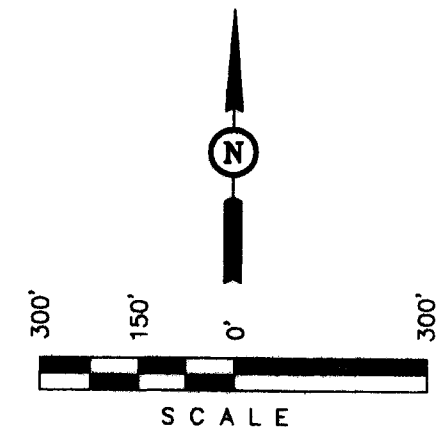
I, RANDY BAYNE, DO HEREBY CERTIFY THAT I AM THE AGENT FOR Kerr-McGee Oil & Gas Onshore LP, HEREINAFTER DESIGNATED THE APPLICANT; THAT ROBERT L. KAY WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS SURFACE USE AREA AND ROAD RIGHT-OF-WAY, BEGINNING AND ENDING AS SHOWN, THAT SAID SURFACE USE AREA AND ROAD RIGHT-OF-WAY ARE ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

\_\_\_\_\_  
APPLICANT

\_\_\_\_\_  
DRILLING MANAGER  
TITLE

# LOCATION SURFACE USE AREA & ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS (For NBU #921-15D1S, #921-15C2S, #921-15C4T & #921-15G2S)

LOCATED IN  
SECTION 15, T9S, R21E, S.L.B.&M.  
UINTAH COUNTY, UTAH

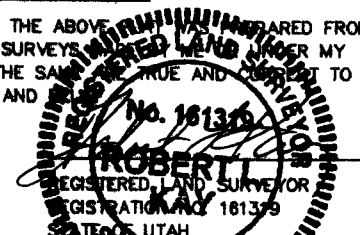


## SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN THE NW 1/4 NE 1/4 OF SECTION 15, T9S, R21E, S.L.B.&M. WHICH BEARS S24°05'39"E 655.59' FROM THE NORTH 1/4 CORNER OF SAID SECTION 15, THENCE S06°07'04"W 425.00'; THENCE N83°52'56"W 510.00'; THENCE N06°07'04"E 425.00'; THENCE S83°52'56"E 510.00' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 4.976 ACRES MORE OR LESS.

## CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



REVISED: 07-17-08

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH - 200 EAST • (435) 789-1017  
VERNAL, UTAH - 84078

SCALE 1" = 300'	DATE 05-21-08
PARTY L.K. N.W. C.C.	REFERENCES G.L.O. PLAT
WEATHER WARM	FILE 4 8 6 4 6

S89°58'23"E - 2640.98' (Meas.)

S89°38'30"E - 2645.84' (Meas.)

2006 Alum.  
Cap, 0.4'  
High, Pile of  
Stones

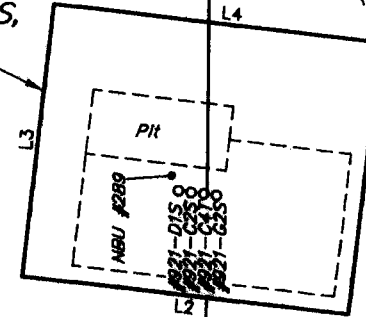
2006 Alum.  
Cap, 0.6'  
High, Pile of  
Stones

NE Cor. Sec 15  
2006 Alum. Cap,  
2.0' High, Pile  
of Stones

SURFACE USE AREA  
NBU #921-15D1S, #921-15C2S,  
#921-15C4T & #921-15G2S  
Contains 4.132 Acres

Ute  
Tribal

Ute  
Tribal



1/16 Section Line

NW 1/4

NE 1/4

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

ROAD RIGHT-OF-WAY CONTAINED WITHIN SURFACE USE AREA.

LINE TABLE		
LINE	BEARING	LENGTH
L1	S06°07'04"W	425.00'
L2	N83°52'56"W	510.00'
L3	N06°07'04"E	425.00'
L4	S83°52'56"E	510.00'

Sec. 15

SE 1/4

▲ = SECTION CORNERS LOCATED.

N00°13'14"E - 2658.16' (Meas.)

Section Line

1/16 Section Line

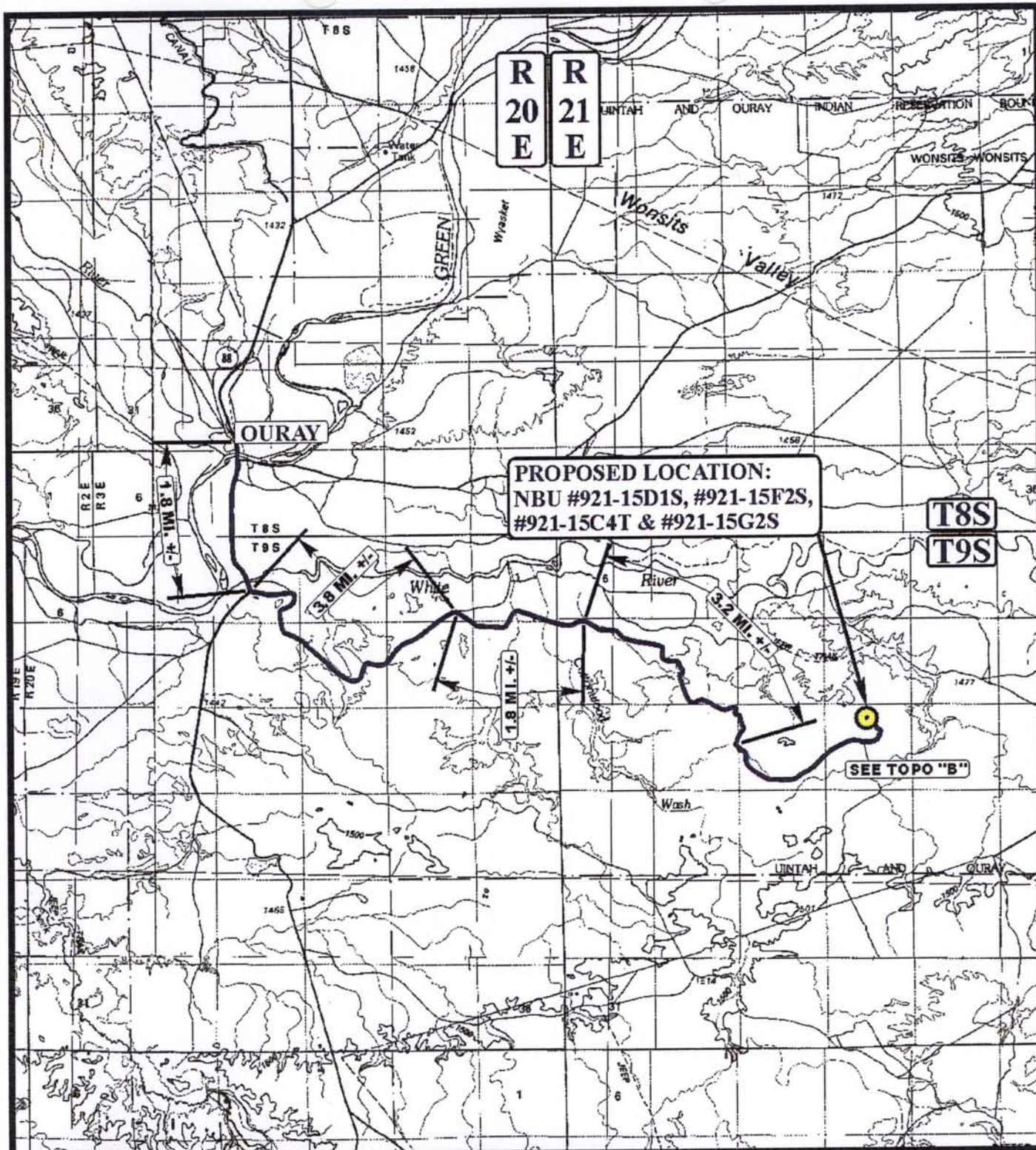
1/4 Section Line

1/4 Section Line

Set Marked  
Stone, "X"  
Marked on Top  
of Stone

SW 1/4





# LEGEND:

PROPOSED LOCATION

## Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15F2S,  
 #921-15C4T & #921-15G2S  
 SECTION 15, T9S, R21E, S.L.B. & M.  
 N 1/2



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



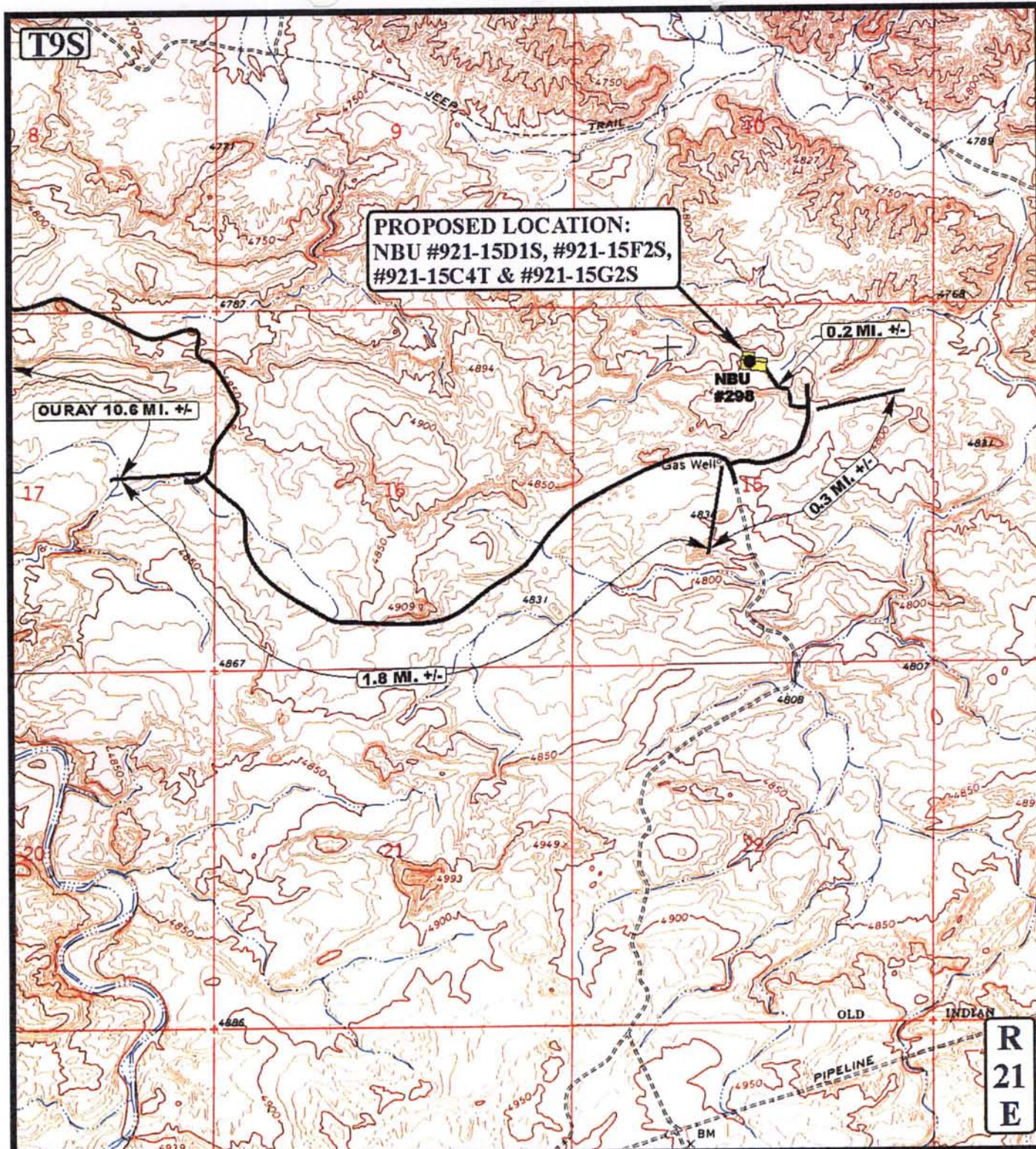
TOPOGRAPHIC  
 MAP

05 20 08  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.C. REVISED: 00-00-00







# LEGEND:

EXISTING ROAD  
 PROPOSED ACCESS ROAD

N

## Kerr-McGee Oil & Gas Onshore LP

NBU #921-15D1S, #921-15F2S,  
#921-15C4T & #921-15G2S  
SECTION 15, T9S, R21E, S.L.B. & M.  
N 1/2

**U**  
**E**  
**L**  
**S**

**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** 05 20 08  
**MAP** MONTH DAY YEAR

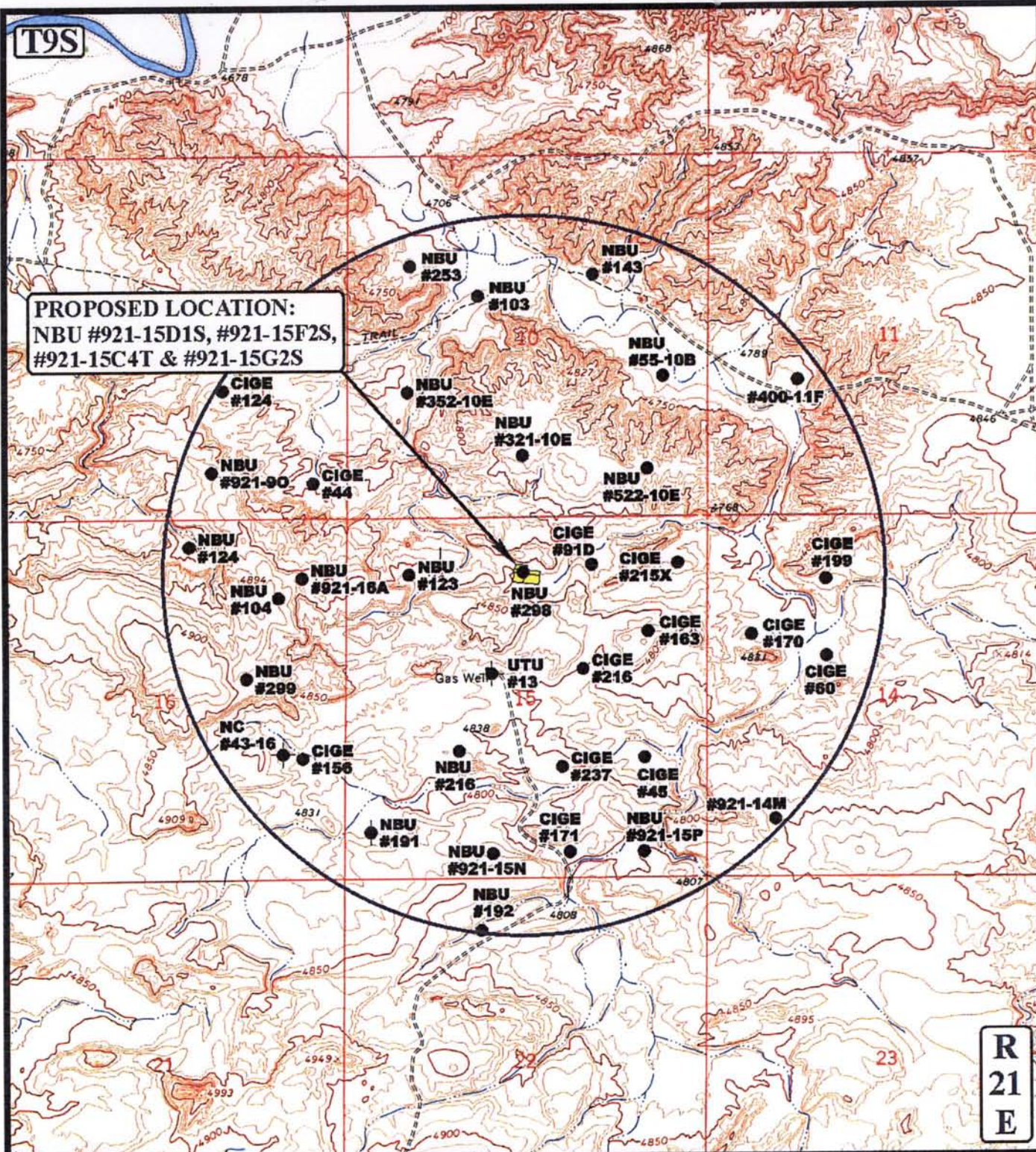
SCALE: 1" = 2000' DRAWN BY: C.C. REVISED: 00-00-00

**B**  
**TOPO**



T9S

**PROPOSED LOCATION:**  
NBU #921-15D1S, #921-15F2S,  
#921-15C4T & #921-15G2S



R  
21  
E

**LEGEND:**

- |                   |                         |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS  | ○ WATERWELLS            |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |



**Kerr-McGee Oil & Gas Onshore LP**

NBU #921-15D1S, #921-15F2S,  
#921-15C4T & #921-15G2S  
SECTION 15, T9S, R21E, S.L.B.&M.  
N 1/2



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**05 20 08**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.C. REVISED: 00-00-00





**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 07/15/2008

API NO. ASSIGNED: 43-047-40235

WELL NAME: NBU 921-15D1S

OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )

PHONE NUMBER: 720-929-6226

CONTACT: KEVIN MCINTYRE

PROPOSED LOCATION:

NENW 15 090S 210E

SURFACE: 0832 FNL 2600 FWL

BOTTOM: 0621 FNL 0671 FWL

COUNTY: UINTAH

LATITUDE: 40.04108 LONGITUDE: -109.5373

UTM SURF EASTINGS: 624784 NORTHINGS: 4433131

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /

**Tech Review**

**Initials**

**Date**

Engineering

Geology

Surface

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-01188

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. RLB0005239 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 43-8496 )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_\_\_ R649-2-3.

Unit: NATURAL BUTTES

\_\_\_\_\_ R649-3-2. General

Siting: 460' From Qtr/Qtr & 920' Between Wells

\_\_\_\_\_ R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 17314

Eff Date: 1-2-1999

Siting: 460' From Qtr/Qtr & 920' Between Wells

☒ R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

*Sep, Separate file*

STIPULATIONS: \_\_\_\_\_

*1. Federal Approval  
2. OIL SHALE*





# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

July 18, 2008

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2008 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2008 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Wasatch/MesaVerde)

43-047-40234	NBU 921-15F2S Sec 15 T09S R21E 0834 FNL 2620 FWL	
	BHL Sec 15 T09S R21E 1306 FNL 1427 FWL	

43-047-40235	NBU 921-15D1S Sec 15 T09S R21E 0832 FNL 2600 FWL	
	BHL Sec 15 T09S R21E 0621 FNL 0671 FWL	

43-047-40236	NBU 921-15G2S Sec 15 T09S R21E 0838 FNL 2631 FEL	
	BHL Sec 15 T09S R21E 1463 FNL 2355 FEL	

43-047-40237	NBU 921-15C4T Sec 15 T09S R21E 0836 FNL 2640 FWL	
	BHL Sec 15 T09S R21E 0801 FNL 2590 FWL	

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:7-18-08



Kerr-McGee Oil & Gas Onshore LP  
1999 Broadway, Suite 3700  
Denver, CO 80205

July 15, 2008

Mrs. Diana Mason  
Division of Oil, Gas and Mining  
P.O. Box 145801  
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11  
NBU 921-15D1S  
T9S-R21E  
Section 15: NWNW  
Surface: 832' FNL, 2600' FWL  
Bottom Hole: 621' FNL, 671' FNL  
Uintah County, Utah

Dear Mrs. Mason:

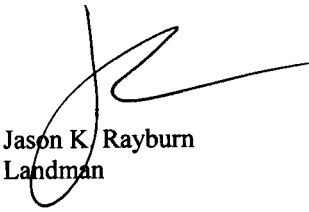
Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 921-15D1S is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

  
Jason K. Rayburn  
Landman

RECEIVED  
JUL 22 2008  
DIV. OF OIL, GAS & MINING



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

July 31, 2008

Kerr-McGee Oil & Gas Onshore, LP  
P O Box 173779  
Denver, CO 80217-3779

Re: NBU 921-15D1S Well, Surface Location 832' FNL, 2600' FWL, NE NW, Sec. 15,  
T. 9 South, R. 21 East, Bottom Location 621' FNL, 671' FWL, NW NW, Sec. 15,  
T. 9 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40235.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Office

Operator: Kerr-McGee Oil & Gas Onshore, LP  
Well Name & Number NBU 921-15D1S  
API Number: 43-047-40235  
Lease: UTU-01188

Surface Location: NE NW      Sec. 15      T. 9 South      R. 21 East  
Bottom Location: NW NW      Sec. 15      T. 9 South      R. 21 East

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### 2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office      (801) 733-0983 home

#### 3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.
5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004- 0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator <b>Kerr-McGee Oil &amp; Gas Onshore, LP</b>	
3a. Address <b>P.O. Box 173779, Denver, CO 80217-3779</b>	3b. Phone No. (include area code) <b>720.929.6226</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>NE NW Sec. 15 T 9S R 21E</b> <b>832 FNL 2600 FWL</b>	


5. Lease Serial No. <b>UTU-01188</b>
6. If Indian, Allottee, or Tribe Name <b>Ute Tribe</b>
7. If Unit or CA. Agreement Name and/or No. <b>891008900A</b>
8. Well Name and No. <b>NBU 921-15D1S</b>
9. API Well No. <b>43-047-40235</b>
10. Field and Pool, or Exploratory Area <b>Natural Buttes</b>
11. County or Parish, State <b>Uintah</b>

**12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production ( Start/ Resume)	<input type="checkbox"/> Water Shut-off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamantion, have been completed, and the operator has determined that the site is ready for final inspection.)

Kerr-McGee Oil & Gas Onshore, LP, respectfully submits the following revised TOPO D for NBU 921-15D1S, per the conditions of the tribal onsite.

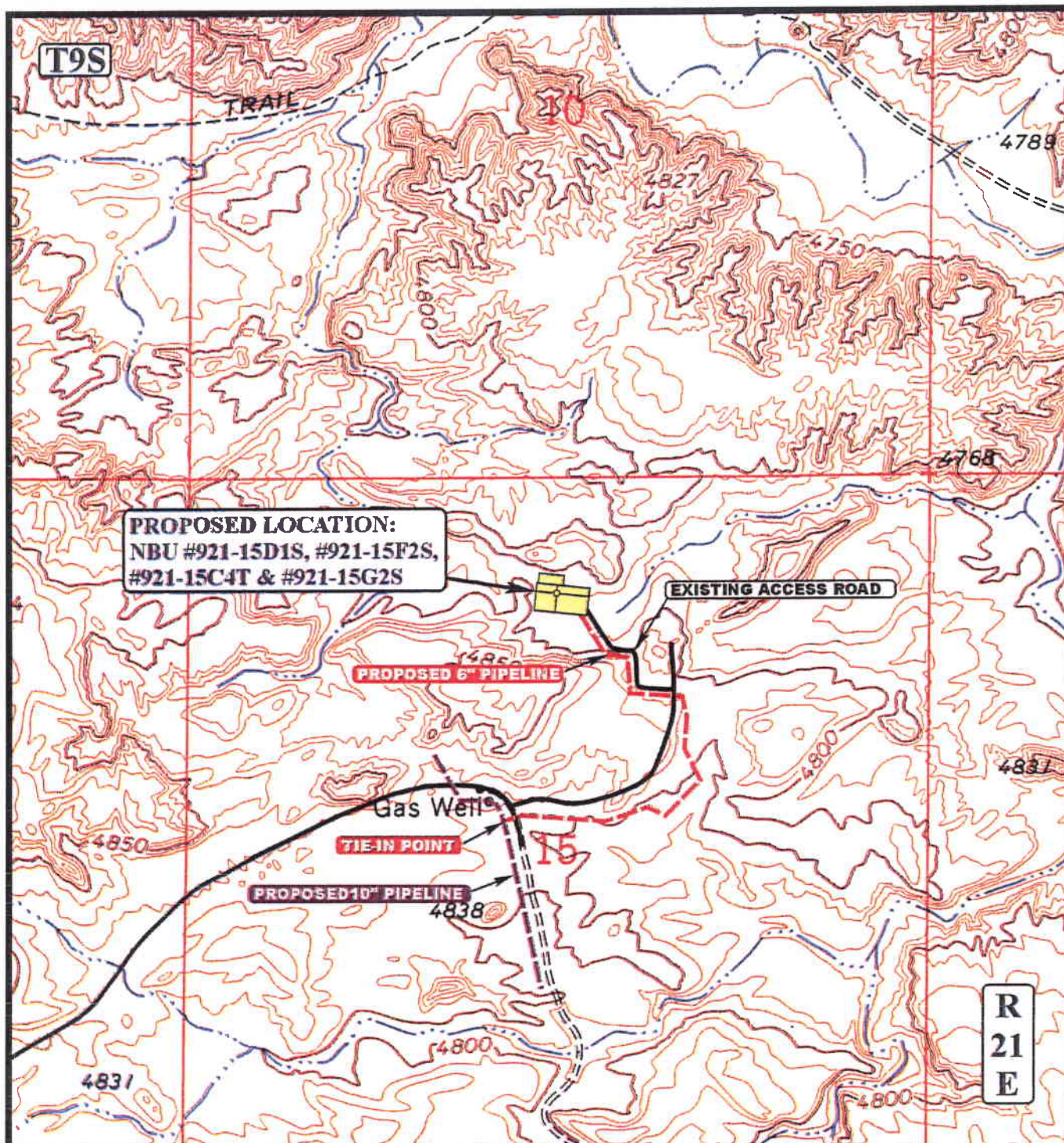
14. I hereby certify that the foregoing is true and correct.		
Name (Printed/ Typed) <b>Kevin McIntyre</b>	Title <b>Regulatory Analyst</b>	
Signature 	Date <b>10/7/08</b>	
<b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>		
Approved by Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Title <b>Office</b>	Date
Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

RECEIVED

OCT 08 2008

DIV. OF OIL, GAS & MINING





**APPROXIMATE TOTAL PIPELINE DISTANCE = 3,169' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- - - - - PROPOSED 6" PIPELINE
- - - - - PROPOSED 10" PIPELINE (SERVICING OTHER WELLS)



**Kerr-McGee Oil & Gas Onshore LP**

NBU #921-15D1S, #921-15F2S,  
#921-15C4T & #921-15G2S  
SECTION 15, T9S, R21E, S.L.B.&M.  
N 1/2



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP**

SCALE: 1" = 1000' DRAWN BY: C.C. REV. J.H. 9-10-08



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01188			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-15D1S			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0832 FNL 2600 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047402350000			
<b>PHONE NUMBER:</b> 720 929-6007 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES			
<b>COUNTY:</b> UTAH		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/24/2009  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> APD EXTENSION          OTHER:       </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.					
<div style="text-align: right;"> <b>Approved by the Utah Division of Oil, Gas and Mining</b> </div>		<b>Date:</b> July 23, 2009			
<div style="text-align: right;"> <b>By:</b> </div>					
<b>NAME (PLEASE PRINT)</b> Danielle Piernot		<b>PHONE NUMBER</b> 720 929-6156			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst			
		<b>DATE</b> 7/21/2009			

**RECEIVED** July 21, 2009





## The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43047402350000

**API:** 43047402350000

**Well Name:** NBU 921-15D1S

**Location:** 0832 FNL 2600 FWL QTR NENW SEC 15 TWNP 090S RNG 210E MER S

**Company Permit Issued to:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date Original Permit Issued:** 7/31/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Danielle Piernot

**Date:** 7/21/2009

**Title:** Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date:** July 23, 2009

**By:** 

**RECEIVED** July 21, 2009

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01188			
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<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 8/3/2010  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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<div style="text-align: right;"> <b>Approved by the Utah Division of Oil, Gas and Mining</b> </div>		<b>Date:</b> August 03, 2010			
<div style="text-align: right;"> <b>By:</b> </div>					
<b>NAME (PLEASE PRINT)</b> Danielle Piernot		<b>PHONE NUMBER</b> 720 929-6156			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst			
		<b>DATE</b> 8/3/2010			



## The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43047402350000

**API:** 43047402350000

**Well Name:** NBU 921-15D1S

**Location:** 0832 FNL 2600 FWL QTR NENW SEC 15 TWNP 090S RNG 210E MER S

**Company Permit Issued to:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date Original Permit Issued:** 7/31/2008

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- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Danielle Piernot

**Date:** 8/3/2010

**Title:** Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date:** August 03, 2010

**By:** 

**RECEIVED** August 03, 2010

RECEIVED

JUL 16 2008

RECEIVED

NOV 23 2010

Form 3160-3  
(August 2007)FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU 01188	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Ute Tribe	
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		7. If Unit or CA Agreement, Name and No. 891008900A	
3a. Address PO Box 173779 Denver, CO 80217-3779		8. Lease Name and Well No. NBU 921-15D1S	
3b. Phone No. (include area code) Danielle Piernot 720-929-6156		9. API Well No. 43-047-40235	
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface 832' FNL 2,600' FWL NE/4 NW/4 Lat. 40.041097 Long. -109.538058 At proposed prod. zone 621' FNL 671' FWL NW/4 NW/4 Sec. 15 T9S R21E		10. Field and Pool, or Exploratory Natural Buttes Field	
11. Sec., T., R., M., or Blk. and Survey or Area 15 T 9S R 21E S.L.B.&M.		12. County or Parish Uintah	
14. Distance in miles and direction from the nearest town or post office* Approximately 13 miles southeast of Ouray, Utah		13. State Utah	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 621'	16. No. of acres in lease 880.00	17. Spacing Unit dedicated to this well Unit well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. ±50'	19. Proposed Depth 10,475' MD	20. BLM/ BIA Bond No. on file WYB000291	
21. Elevations (Show whether DF, RT, GR, etc.) 4,792' Ungraded Ground Level KB	22. Approximate date work will start* Upon Approval	23. Estimated duration 60-90 days	
24. Attachments			

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

- |   |   |
|---|---|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by existing bond on file (see item 20 above).        |
| 2. A Drilling Plan.   | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/ or plans as may be required by the authorized officer. |

25. Signature <i>Danielle Piernot</i>	Name (Printed/ Typed) Danielle Piernot	Date November 22, 2010
Title Regulatory Analyst I	E-mail: danielle.piernot@anadarko.com	Phone: 720-929-6156
Approved By (Signature) <i>James H. Sparger</i>	Name (Printed/ Typed) James H. Sparger	Date DEC 01 2010
Title Acting Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\* (Instructions on page 2)

NOTICE OF APPROVAL

DEC 09 2010

DIV. OF OIL, GAS &amp; MINING

UDOGM

APD posted 7/16/08  
08PP1003A



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE  
170 South 500 East  
VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company:	Kerr McGee Oil & Gas Onshore, LP	Location:	NENW, Sec. 15, T9S, R21E (S) NWNW, Sec. 15, T9S, R21E (B)
Well No:	NBU 921-15D1S	Lease No:	UTU-01188
API No:	43-047-40235	Agreement:	Natural Buttes Unit

**OFFICE NUMBER: (435) 781-4400**  
**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity  
(Notify Ute Tribe Energy & Minerals Dept.  
and BLM Environmental Scientist)

- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.

Construction Completion  
(Notify Ute Tribe Energy & Minerals Dept.  
and BLM Environmental Scientist)

- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.

Spud Notice  
(Notify BLM Petroleum Engineer)

- Twenty-Four (24) hours prior to spudding the well.

Casing String & Cementing  
(Notify BLM Supv. Petroleum Tech.)

- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: [ut\\_vn\\_opreport@blm.gov](mailto:ut_vn_opreport@blm.gov).

BOP & Related Equipment Tests  
(Notify BLM Supv. Petroleum Tech.)

- Twenty-Four (24) hours prior to initiating pressure tests.

First Production Notice  
(Notify BLM Petroleum Engineer)

- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.



**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**Site-Specific Conditions of Approval:**

1. Paint old and new facilities "Shadow Gray."
2. Move the existing pipeline off the damage area of the well pad.
3. Monitor constructions operations by a permitted paleontologist.
4. Monitor constructions operations by a permitted archaeologist.
5. In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002, a raptor survey shall be conducted prior to expansion of the well pad or pipeline upgrade if construction will take place during raptor nesting season (January 01 through September 30). If active raptor nests are identified during a new survey, KMG shall conduct its operations according to the seasonal restrictions detailed in the Uintah Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (see Appendix D).
6. If project construction operations are not initiated before November 3, 2010, KMG shall conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

**BIA Standard Conditions of Approval:**

1. Soil erosion will be mitigated by reseeding all disturbed areas.
2. The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
3. An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
4. The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
5. A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
6. Major low water crossings will be armored with pit run material to protect them from erosion.
7. All personnel shall refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.

8. If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
9. Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
10. Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
11. If project construction operations are scheduled to occur after December 31, 2009, KMG shall conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix E) and conduct its operations according to applicable seasonal restrictions and spatial offsets.
12. USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix E).
13. All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
14. If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

1. A copy of Kerr McGee's Standard Operating Practices (dated 7/17/08 and approved 7/28/08) shall be on location.
2. Kerr McGee and their contractors shall strictly adhere to all operating practices in the SOP along with all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.



- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01188			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-15D1S			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0832 FNL 2600 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047402350000			
<b>10. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>COUNTY:</b> UINTAH			
<b>STATE:</b> UTAH					
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 4/13/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input checked="" type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 1.2em; vertical-align: middle;"></span>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests to change the total depth (TD) to include the Blackhawk formation, which is in the Mesaverde group for this well. In addition, Kerr-McGee respectfully request approval in the well design, which includes hole and casing size changes. Please see attached for additional details. Please contact the undersigned if you have any questions and/or comments. Thank you.					
<b>NAME (PLEASE PRINT)</b> Andy Lytle		<b>PHONE NUMBER</b> 720 929-6100			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst			
<b>DATE</b> 4/13/2011					

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** 04/14/2011  
**By:**



**KERR-McGEE OIL & GAS ONSHORE LP**  
**DRILLING PROGRAM**

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP				DATE	April 13, 2011			
WELL NAME	<b>NBU 921-15D1S</b>				TD	11,317'	TVD	11,692' MD	
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah		FINISHED ELEVATION	4,792'
SURFACE LOCATION	NENW	832 FNL	2600 FWL	Sec 15	T 9S	R 21E			
	Latitude:	40.041097	Longitude:	-109.538058		NAD 27			
BTM HOLE LOCATION	NWNW	621 FNL	671 FWL	Sec 15	T 9S	R 21E			
	Latitude:	40.041672	Longitude:	-109.544944		NAD 27			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), TRIBAL (Surface), UDOGM Tri-County Health Dept.								

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			11.00'	8-5/8", 28#, IJ-55, LTC	Air mist
All water flows encountered while drilling will be reported to the appropriate agencies.					
	Green River @ Top of Birds Nest @ Mahogany @	1,735' 2,090' 2,470'			
	Preset f/ GL @ 2,920' MD				
Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.					
	Wasatch @	5,165'			
Mud logging program TBD Cased hole logging program from TD - surf csg			7-7/8"	4-1/2" 11.6# P-110 or equivalent BTC/LTC csg	Water / Fresh Water Mud 8.3-12.0 ppg
	Mverde @	8,131' TVD			
	MVU2 @	9,083' TVD			
	MVU1 @	9,618' TVD			
	Sego @	10,403' TVD			
	Castlegate @	10,457' TVD			
	MN5 @	10,854' TVD			
	Max anticipated Mud required 13.0 ppg	11,317' TVD TD @ 11,692' MD			



## KERR-McGEE OIL & GAS ONSHORE LP

### DRILLING PROGRAM

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	BTC
								TENSION	
CONDUCTOR	14"	0-40'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,920	28.00	IJ-55	LTC	1.85	1.38	4.86	N/A
						10,690	8,650	279,000	367,000
PRODUCTION	4-1/2"	0 to 11,692	11.60	P-110	LTC or BTC	1.19	1.13	2.57	3.38

**Surface Casing:**

(Burst Assumptions: TD = 13.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoys.Fact. of water)

**Production casing:**

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoys.Fact. of water)

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
			NOTE: If well will circulate water to surface, option 2 will be utilized				
SURFACE	LEAD	2,420'	65/35 Poz + 6% Gel + 10 pps gilsonite	220	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
Option 2							
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,662'	Premium Lite II + 0.25 pps	340	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	7,030'	50/50 Poz/G + 10% salt + 2% gel	1,350	10%	14.30	1.31
			+ 0.1% R-3				

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

**ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

**DRILLING ENGINEER:**

Nick Spence / Emile Goodwin

**DATE:****DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

**DATE:**



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
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<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-15D1S			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0832 FNL 2600 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047402350000			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES			
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 06/08/2011 AT 1500 HRS.					
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>					
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock		<b>PHONE NUMBER</b> 435 781-7024			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst			
<b>DATE</b> 6/9/2011					

## BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG  
Submitted By ANDY LYTLE Phone Number 720.929.6100  
Well Name/Number NBU 921-15D1S  
Qtr/Qtr NENW Section 15 Township 9S Range 21E  
Lease Serial Number UO-01188  
API Number 4304740235

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 06/08/2011 08:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing  
☐ Intermediate Casing  
☐ Production Casing  
☐ Liner  
☐ Other

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JUN 08 2011

DIV. OF OIL, GAS & MINING

Date/Time 06/21/2011 00:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point  
☐ BOPE test at intermediate casing point  
☐ 30 day BOPE test  
☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01188
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-15D1S
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0832 FNL 2600 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047402350000
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/16/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
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	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> MIRU AIR RIG ON JUNE 14, 2011. DRILLED SURFACE HOLE TO 2935'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/17/2011	

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: KERR McGEE OIL & GAS ONSHORE LP  
Address: 1368 SOUTH 1200 EAST  
city VERNAL  
state UT zip 84078

Operator Account Number: N 2995

Phone Number: (435) 781-7024

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740235	NBU 921-15D1S		NENW	15	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>B</i>	99999	<i>2900</i>	6/8/2011		<i>6/22/11</i>		
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 06/08/2011 AT 1500 HRS. <i>BHL = NWNW</i>							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

6/9/2011

Date

**RECEIVED**

**JUN 09 2011**

**DIV. OF OIL, GAS & MINING**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
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<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-15D1S			
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<b>10. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>COUNTY:</b> UINTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>STATE:</b> UTAH			
<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/15/2011	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> MIRU ROTARY RIG. FINISHED DRILLING FROM 2935' TO 11,741' ON AUGUST 11, 2011. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 145 ON AUGUST 15, 2011 @ 02:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.					
<b>NAME (PLEASE PRINT)</b> Andy Lytle		<b>PHONE NUMBER</b> 720 929-6100			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Regulatory Analyst			
<b>DATE</b> 8/15/2011		<b>OFFICE</b> OFFICE			

**RECEIVED** Aug. 15, 2011



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-15D1S
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0832 FNL 2600 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047402350000
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> APD EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:		
<input type="checkbox"/> SPUD REPORT Date of Spud:		
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/4/2011		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 11/04/2011 AT 0700 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/11/2011	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-01188			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-15D1S			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0832 FNL 2600 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 15 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047402350000			
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<b>TYPE OF SUBMISSION</b>  <input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/4/2011	<b>TYPE OF ACTION</b>  <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input checked="" type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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